

Title (en)
VACUUM-ASSISTED SAMPLE EXTRACTION DEVICE AND METHOD

Title (de)
VAKUUMUNTERSTÜTZTE PROBENEXTRAKTIONSVORRICHTUNG UND VERFAHREN

Title (fr)
DISPOSITIF ET PROCÉDÉ D'EXTRACTION D'ÉCHANTILLON ASSISTÉ PAR DÉPRESSION

Publication
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Application
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Abstract (en)
[origin: US2017261408A1] A sample extraction device and a desorption device for use in gas chromatography (GC), gas chromatography-mass spectrometry (GCMS), liquid chromatography (LC), and/or liquid chromatography-mass spectrometry (LCMS) are disclosed. In some examples, the sample extraction device includes a lower chamber holding a sorbent. The sample extraction device can extract sample headspace gas from a sample vial by placing the sorbent inside the vial and creating a vacuum to increase recovery of low volatility compounds, for example. Once the sample has been collected, the sample extraction device can be inserted into a desorption device. The desorption device can control the flow of a carrier fluid (e.g., a liquid or a gas) through the sorbent containing the sample and into a pre-column and/or a primary column of a chemical analysis device for performing GC, GCMS, LC, LCMS, and/or some other chemical analysis process.

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